ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 621 (2001) 369–371

Journal of Organometallic Chemistry

Contents of Volume 621

Preface . . . 1

Mono(cyclopentadienyl)titanium complexes containing a sulfide-bridged bis(phenolato) ligand. Molecular structure of Ti{2,2'-S(OC$_6$H$_2$-4-Me-6-^{t}Bu)$_2$}(η^5-C$_5$H$_5$)Cl
F. Amor, S. Fokken, T. Kleinhenn, T.P. Spaniol, J. Okuda . . . 3

Silaheterocyclen XXXVII. Die Kombination Alkeninylhalogensilan Lithium-*tert*-Butyl als Synthesebaustein zum Aufbau von Silaheterocyclen mit kumulierten CC-Doppelbindungen
N. Auner, M. Grasmann . . . 10

Transition metal complexes with the C_1-symmetric diphosphines (*R*)-(*R*)-3-benzyl-2,4-bis(diphenylphosphino)pentane and (*R*)-(*R*)-3-benzyl(*p*-sulphonate)-2,4-bis(diphenylphosphino)pentane sodium salt. Applications to enantioselective catalysis in different phase systems
C. Bianchini, P. Barbaro, G. Scapacci . . . 26

Tunable ferrocenyl diphosphine ligands for the Ir-catalyzed enantioselective hydrogenation of *N*-aryl imines
H.-U. Blaser, H.-P. Buser, R. Häusel, H.-P. Jalett, F. Spindler . . . 34

Stereoselective synthesis of chiral terminal (*E*)-1,3-enynes derived from the aldehydes (1*R*)-(−)-myrtenal and (*S*)-(−)-perillaldehyde using the alkynyl–phosphonio complex [Ru{C≡CCH$_2$(PPh$_3$)}(η^5-C$_9$H$_7$)(PPh$_3$)$_2$][PF$_6$] as synthon
V. Cadierno, M.P. Gamasa, J. Gimeno . . . 39

Synthesis of poly(ferrocenyldialkoxysilane) polymers and their introduction into oxide matrices
G. Calléja, G. Cerveau, R.J.P. Corriu . . . 46

Reactions of Cp*Ir(2,5-dimethylthiophene) with electrophiles, acids, and maleic anhydride
J. Chen, R.J. Angelici . . . 55

The electronic structure and bonding in W$_2$(μ-H)$_2$(O^{i}Pr)$_4$(DMPE)$_2$ and a comparison with Mo$_2$(O^{i}Pr)$_4$(DMPE)$_2$
M.H. Chisholm, M.A. Lynn . . . 66

Dihydroxylation of olefins using air as the terminal oxidant
C. Döbler, G.M. Mehltretter, U. Sundermeier, M. Beller . . . 70

Organotransition-metal-modified sugars: Part 17. Glucal-derived carbene complexes: synthesis and diastereoselective benzannulation
K.H. Dötz, F. Otto, M. Nieger . . . 77

Part III. COD versus NBD precatalysts. Dramatic difference in the asymmetric hydrogenation of prochiral olefins with five-membered diphosphine Rh-hydrogenation catalysts
H.-J. Drexler, W. Baumann, A. Spannenberg, C. Fischer, D. Heller . . . 89

Catalytic hydrogenation of aromatics under biphasic conditions: isolation and structural characterisation of the cluster intermediate [(η^6-C$_6$Me$_6$)$_2$(η^6-C$_6$H$_6$)Ru$_3$(μ_3-H)$_2$(μ_3-OH)(μ_3-O)]$^+$
M. Faure, A. Tesouro Vallina, H. Stoeckli-Evans, G. Süss-Fink . . . 103

Metallkomplexe mit biologisch wichtigen Liganden, CXXVII: Halbsandwich-Komplexe von Ruthenium, Rhodium und Iridium sowie phosphanhaltige Palladium- und Platin(II)-Komplexe mit Schiff-Basen aus α-Aminosäureanionen und Aldehyden
A. Fehn, T. Ederer, S. Mihan, W. Beck . . . 109

Synthesis of achiral, but unsymmetric, seven-membered rhodium(I)-chelates for hydrogenation in the chiral environment of alkyl polyglucoside micelles
V. Fehring, R. Kadyrov, M. Ludwig, J. Holz, K. Haage, R. Selke . . . 120

Highly efficient enantioselective catalysis in supercritical carbon dioxide using the perfluoroalkyl-substituted ligand (*R,S*)-3-H[5]F[6]-BINAPHOS
G. Franciò, K. Wittmann, W. Leitner 130

Alkinstabilisierte monomere Organo-Kupfer(I)-Verbindungen als Organyl-Transfer Reagenzien
W. Frosch, S. Back, H. Lang 143

Ligands with cycloalkane backbones VIII. Steric effects in the ligand accelerated enantioselective alkylation of benzaldehyde
H. Glas, M. Barz, W.R. Thiel 153

Aqueous micellar and non-micellar effects during the asymmetric hydrogenation of dehydroamino acid derivatives: influence of amphiphiles on enantioselectivity and α-CH CD exchange
I. Grassert, G. Oehme 158

Cationic derivatives of $RhCl[P(\eta^2\text{-}C_7H_{11})_3]$. An intramolecular Diels–Alder rearrangement in the tripodal ligand tri(1-cyclohepta-2,4,6-trienyl)phosphane, $P(C_7H_9)_3$
M. Herberhold, S. Eibl, W. Milius 166

Improved synthesis of the radical source bis[2,2,6,6-tetramethylpiperidyl-(1)]-disulfide and photoinduced reactions with $M_2(CO)_{10}$ (M = Mn, Re)
P. Jaitner, K. Jäger, A. Dorfer, K.-E. Schwarzhans 173

Syntheses and properties of the novel co-catalysts *N,N*-dimethylanilinium- and trityl{tetrakis[4-(trifluoromethyl)-2,3,5,6-tetrafluorophenyl]borate}
F.A.R. Kaul, G.T. Puchta, H. Schneider, M. Grosche, D. Mihalios, W.A. Herrmann 177

Trimethylammonium[tetrakis(pentafluorophenoxy)borate], a safe way to synthesize novel co-catalysts for olefin polymerization
F.A.R. Kaul, G.T. Puchta, H. Schneider, M. Grosche, D. Mihalios, W.A. Herrmann 184

Synthesis and characterization of platinum(II)-terminated dendritic carbosilanes: X-ray crystal structure of the model species $[PtCl(C_6H_3\{CH_2NMe_2\}\text{-}2\text{-}SiMe_2\text{-}5)(PPh_3)]$
A.W. Kleij, R.J.M. Klein Gebbink, M. Lutz, A.L. Spek, G. van Koten 190

Preparation and structural features of 1-(2-pyridyl)- and 1-(2-furyl)indenyl-zirconium complexes
T. Dreier, R. Fröhlich, G. Erker 197

Chiral bis(oxazoline) and pyridyl alcoholate dioxo-molybdenum(VI) complexes: synthesis, characterization and catalytic examinations
F.E. Kühn, A.M. Santos, A.D. Lopes, I.S. Gonçalves, J.E. Rodriguez-Borges, M. Pillinger, C.C. Romão 207

Chelating behaviour of a phosphinoalcohol leading to a stable alcohol palladium complex
C. Mattheis, P. Braunstein 218

'Supine' or *'prone'* ligands: geometric preference of conjugated diene, 1-azadiene, and 1,4-diazadiene ligands on half-metallocene complexes of early transition metals
A. Nakamura, K. Mashima 224

A study of Noyori's reagent
H. Nöth, A. Schlegel, M. Suter 231

High performance liquid chromatography for facile analytical separation of the enantiomers of chiral organometallic complexes
S.N. Paisner, R.G. Bergman 242

Stoichiometric cyclotrimerisation of chiral alkynes at a ruthenium centre: preparation of optically active (η⁶-arene)(η⁴-cycloocta-1,5-diene)ruthenium(0) complexes
P. Pertici, A. Verrazzani, E. Pitzalis, A.M. Caporusso, G. Vitulli 246

Self-assembly of $[Cu(CN)_4]^{3-}$ ions with cationic $\{Me_3Sn\}^+$ or $\{Me_2Sn(CH_2)_2SnMe_2\}^{2+}$ fragments in the presence of a $^nBu_4N^+$ template
E.-M. Poll, J.-U. Schütze, R.D. Fischer, N.A. Davies, D.C. Apperley, R.K. Harris 254

Intramolecularly donor-stabilized silenes: Part 3. Synthesis and structure of 1-[2,6-bis(dimethylaminomethyl)phenyl]-1,2,2-tris(trimethylsilyl)silene
M. Pötter, U. Bäumer, M. Mickoleit, R. Kempe, H. Oehme 261

Preparation and crystal structures of the complexes $(\eta^5\text{-}C_5H_3TMS\text{–}CMe_2\text{–}\eta^5\text{-}C_{13}H_8)MCl_2$ and $[3,6\text{-}di^tButC_{13}H_6\text{–}SiMe_2\text{–}N^tBu]MCl_2$ (M = Hf, Zr or Ti): mechanistic aspects of the catalytic formation of a isotactic–syndiotactic stereoblock-type polypropylene
A. Razavi, U. Thewalt 267

Cyclooctatetraene complexes of yttrium and the lanthanides with chiral and achiral aminotroponiminates
P.W. Roesky . . . 277

Meta, para and *meta, ortho* double *exo* nucleophilic additions of trimethylsilylester enolates derived from saturated and unsaturated carboxylic acids to tricarbonylchromium complexes of aryl ethers: dearomatizing cyclization to lactones
H. Rudler, V. Comte, E. Garrier, M. Bellassoued, E. Chelain, J. Vaissermann . . . 284

Insertion of carbon dioxide and isocyanide into tantalum–amide and tantalum–methyl bonds
J. Sánchez-Nieves, P. Royo . . . 299

Unbridged metallocene dichloride complexes with mono-substituted indenyl ligands and their application for the polymerization of propene
R. Schmidt, H.G. Alt . . . 304

Preparation of bistrimethylsilylmethylniobiumtetrafluoride and the application of KHF_2 and $n\text{-}Bu_4NHF_2$ as fluorinating reagents
M. Schormann, S.P. Varkey, H.W. Roesky, M. Noltemeyer . . . 310

Synthese und Charakterisierung chiraler Organogallium- und -aluminiumalkoholate mit intramolekularer Stickstoffstabilisierung. Röntgenstrukturanalyse von Dimethylgallium-(*S*)-2-dimethylamino-3-methyl-1-butanolat, Dimethylgallium-(*S*)-2-dimethylamino-3-phenyl-1-propanolat und Dimethylgallium-(*R*)-2-dimethylamino-1-butanolat
H. Schumann, S. Wernik, B.C. Wassermann, F. Girgsdies . . . 317

Komplexkatalyse: LVII. Vereinfachte Synthese des $Nd(\pi\text{-}C_3H_5)_3C_4H_8O_2$ nach der Grignard-Methode und Darstellung der neuen Allylneodym(III)-Komplexe $[Nd(\pi\text{-}C_3Me_3)(\pi\text{-}C_3H_5)_2C_4H_8O_2]$ und $[Nd(\pi\text{-}C_3H_5)Cl(THF)_3]B(C_6H_5)_4\cdot THF$ als Präkatalysatoren für die stereospezifische Butadienpolymerisation
R. Taube, S. Maiwald, J. Sieler . . . 327

Catalytic conversions in water: Part 19. Smooth hydroformylation of *N*-allylacetamide in mono- and biphasic aqueous media
G. Verspui, G. Elbertse, G. Papadogianakis, R.A. Sheldon . . . 337

Synthesis of chiral β-aminoalcohol-substituted carbene complexes of manganese and influence of the chiral carbene ligand on the diastereoselectivity of the CO/PR_3 exchange
K. Weißenbach, H. Fischer . . . 344

Diastereoselective oxidative addition of cyclic thiosulfinates to platinum(0) compounds: chiral platinum(II) complexes with sulfenato ligands Crystal structures of $\overline{S(O)\text{–}CH_2\text{–}CH(OAc)\text{–}CH(OAc)\text{–}CH_2\text{–}S}$ and dppePt[S(O)–$(CH_2)_4$–S]: Part 16. Metal complexes of functionalized sulfur-containing ligands
R. Wünsch, G. Bosl, C. Robl, W. Weigand . . . 352

Author index of Volume 621 . . . 359
Subject index of Volume 621 . . . 361
Contents of Volume 621 . . . 369